

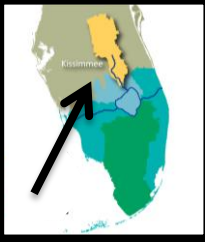
**Governing Board Meeting
July 14, 2011**



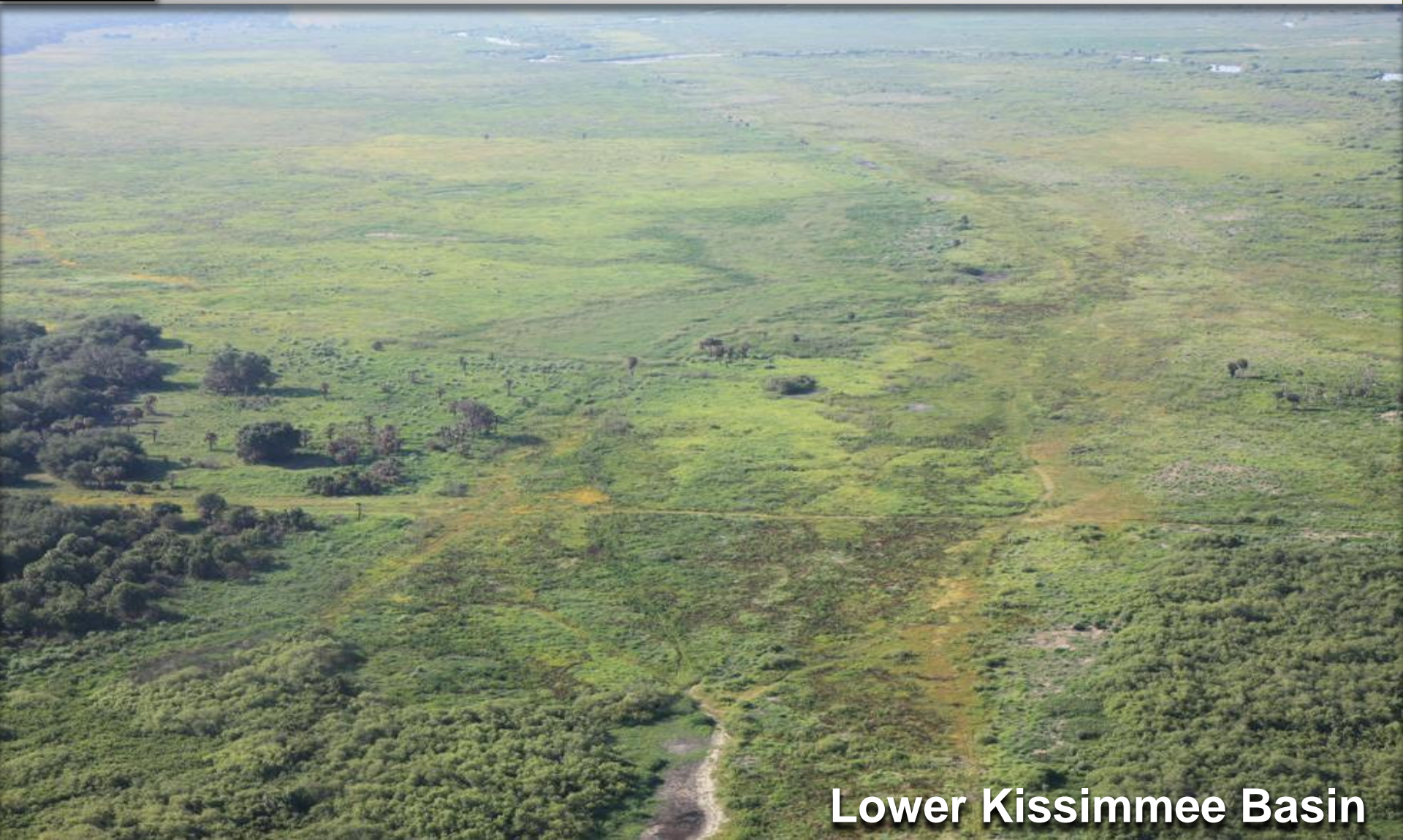
Ecological Conditions Update

Terrie Bates

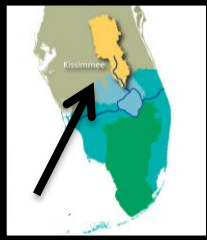
Director, Water Resources Division



Kissimmee Basin

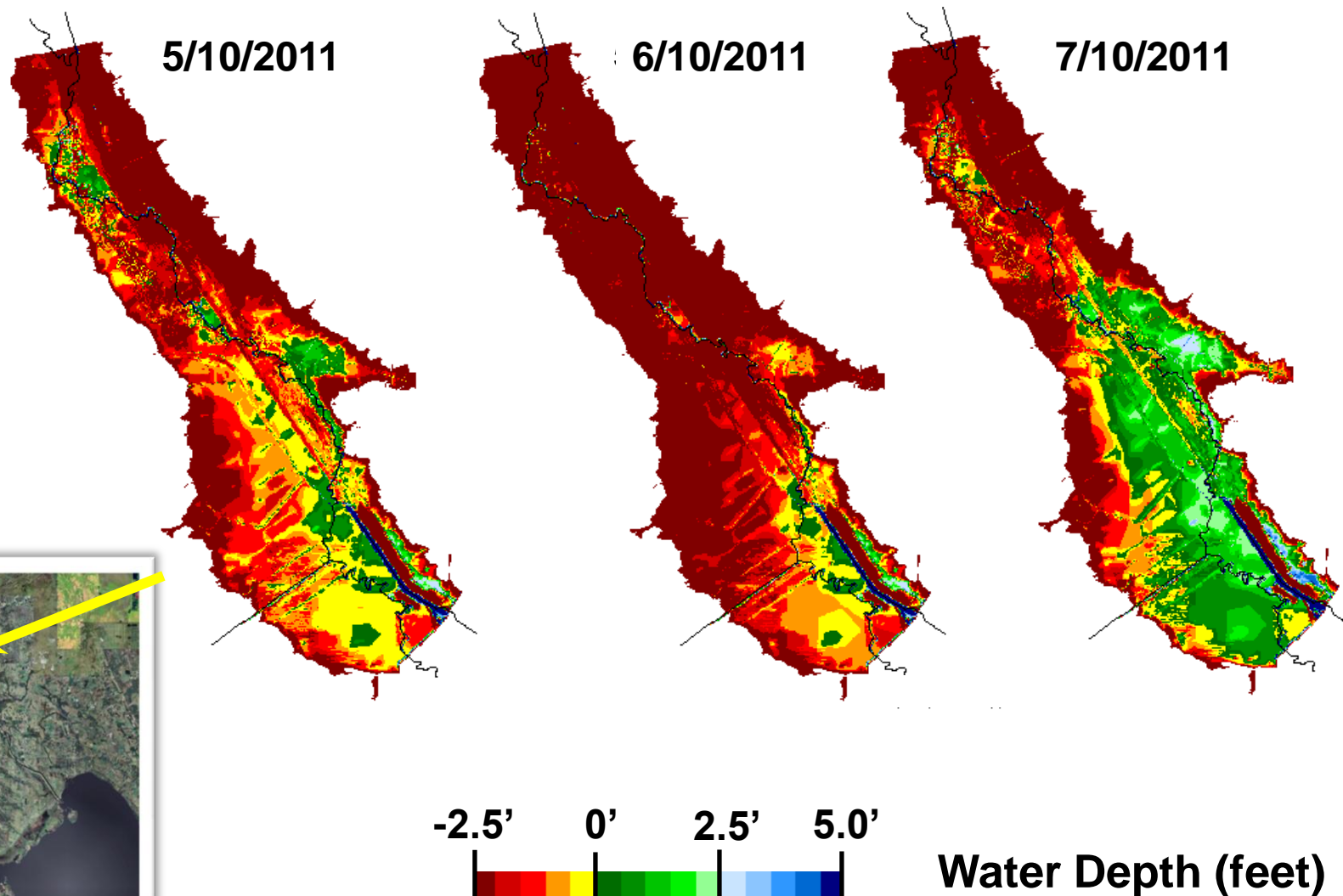


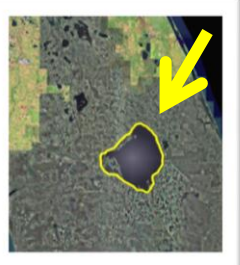
Lower Kissimmee Basin



Kissimmee Basin

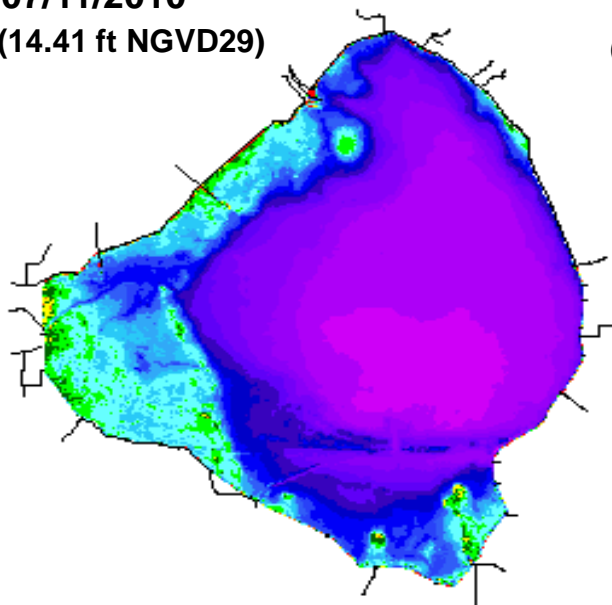
Kissimmee River Floodplain Water Depth Maps



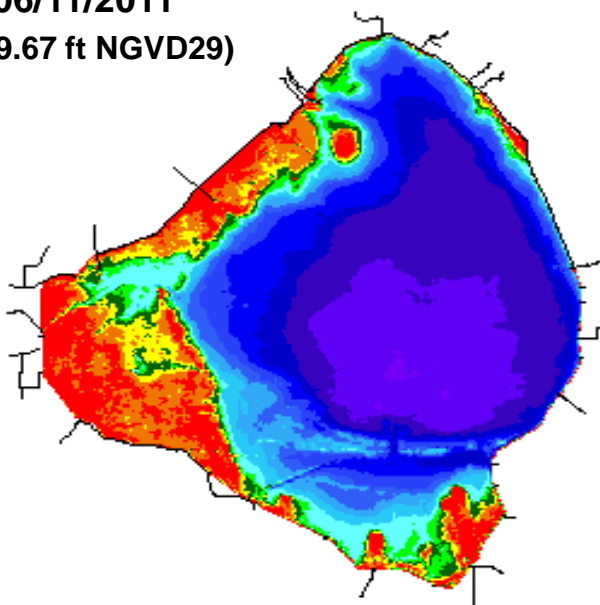


Lake Okeechobee Water Depth Timeseries Maps

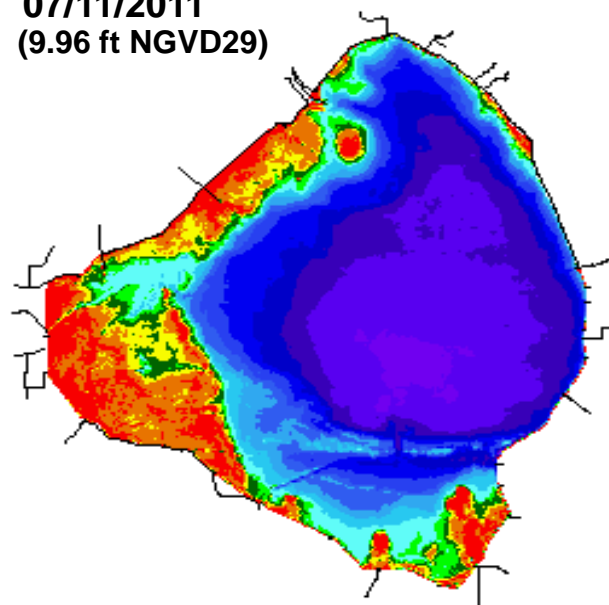
1 Year Ago:
07/11/2010
(14.41 ft NGVD29)



1 Month Ago:
06/11/2011
(9.67 ft NGVD29)



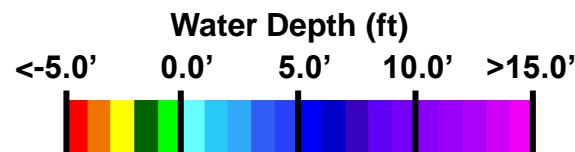
Current:
07/11/2011
(9.96 ft NGVD29)

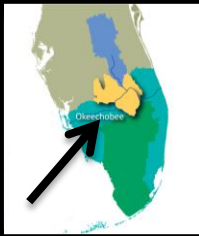


Lowest lake stage this year:
9.53 ft NGVD29 (06/24/11)

Record low lake stage:
8.82 ft NGVD29 (7/2/07)

CURRENT LAKE LEVEL:
(9.89 ft NGVD29)





Lake Okeechobee



Dry Marsh near Cochran's Pass



Boy Scout Cut on South end of Lake



Exposed Fish Beds



Low Lake Level at S308
(St. Lucie/Port Mayaca) Lock

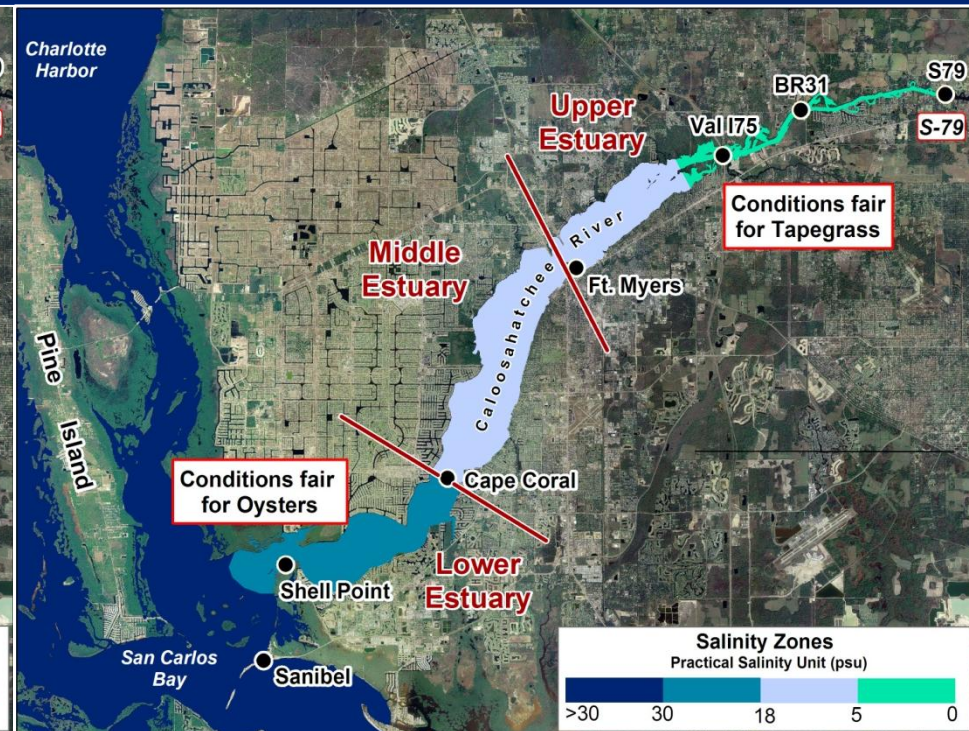
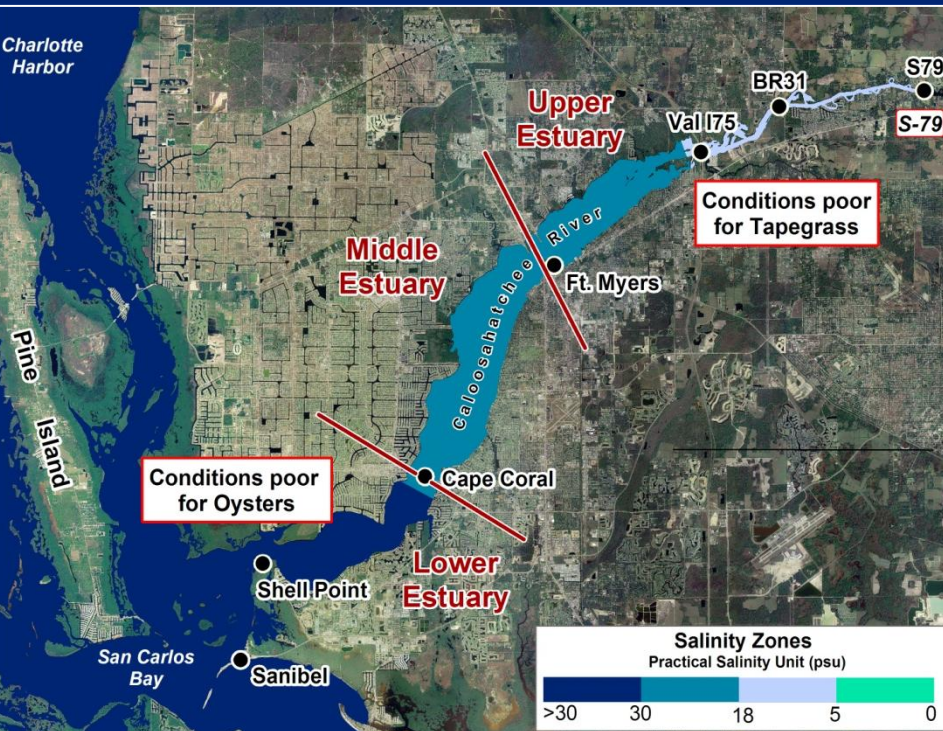


Caloosahatchee Estuary

Salinity Conditions

June 6, 2011

July 11, 2011

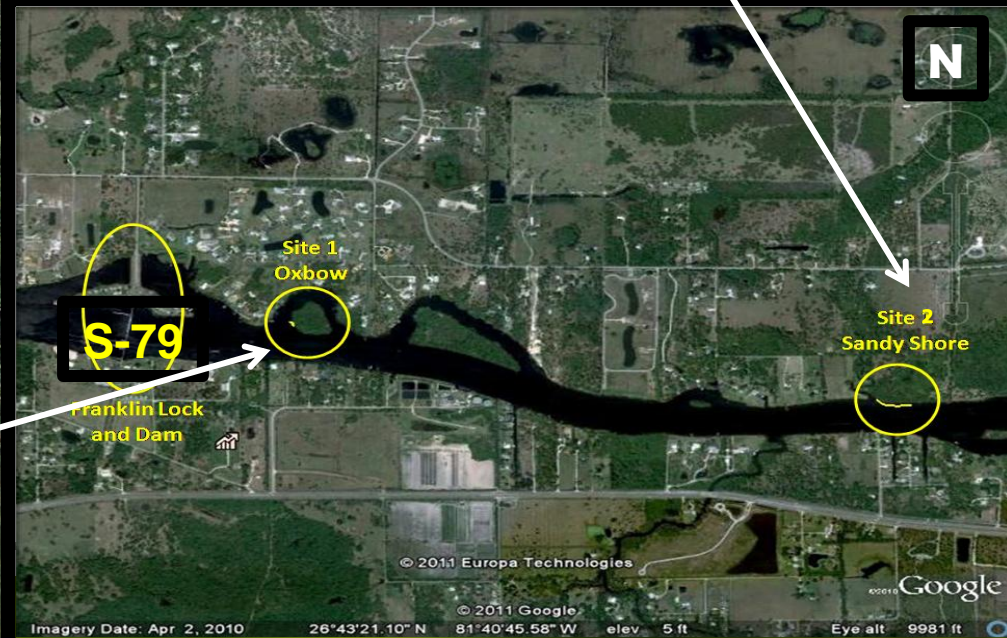


NOTE: Optimal Range for Oysters: 14 – 28 psu

Optimal Range for Tape Grass: 0 – 5 psu (depending on light conditions)

Caloosahatchee

Tape Grass Planting



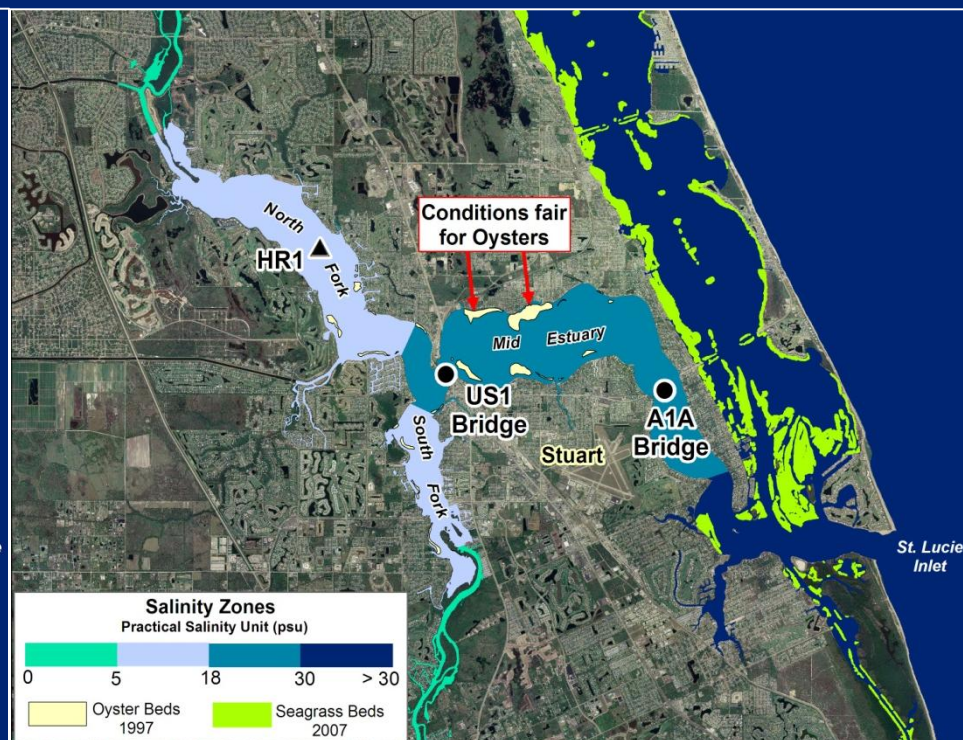
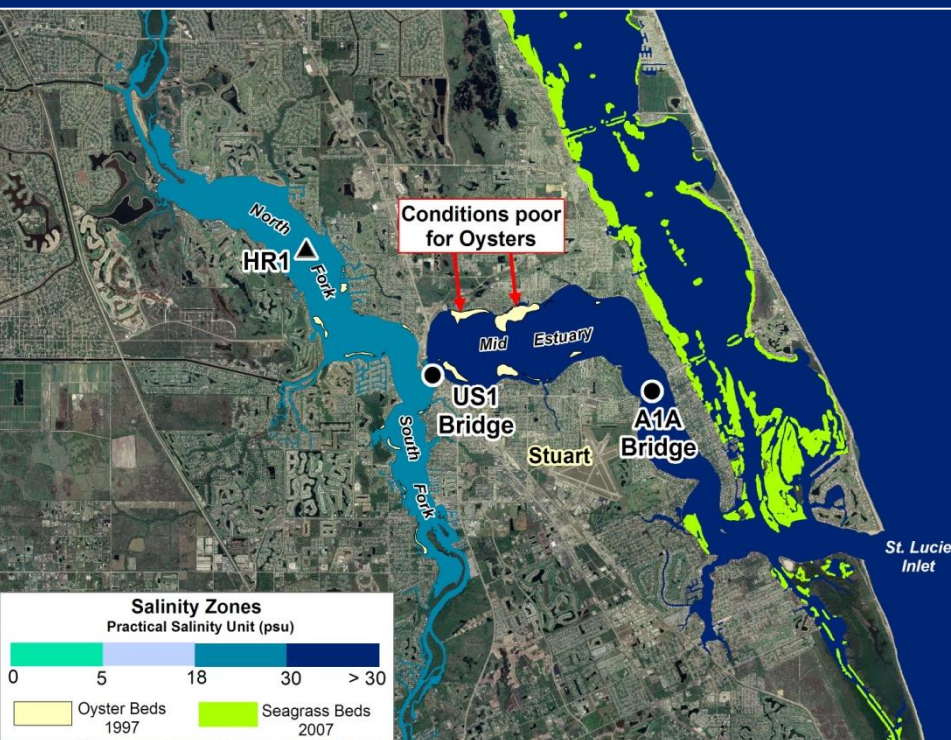


St. Lucie Estuary

Salinity Conditions

June 6, 2011

July 11, 2011



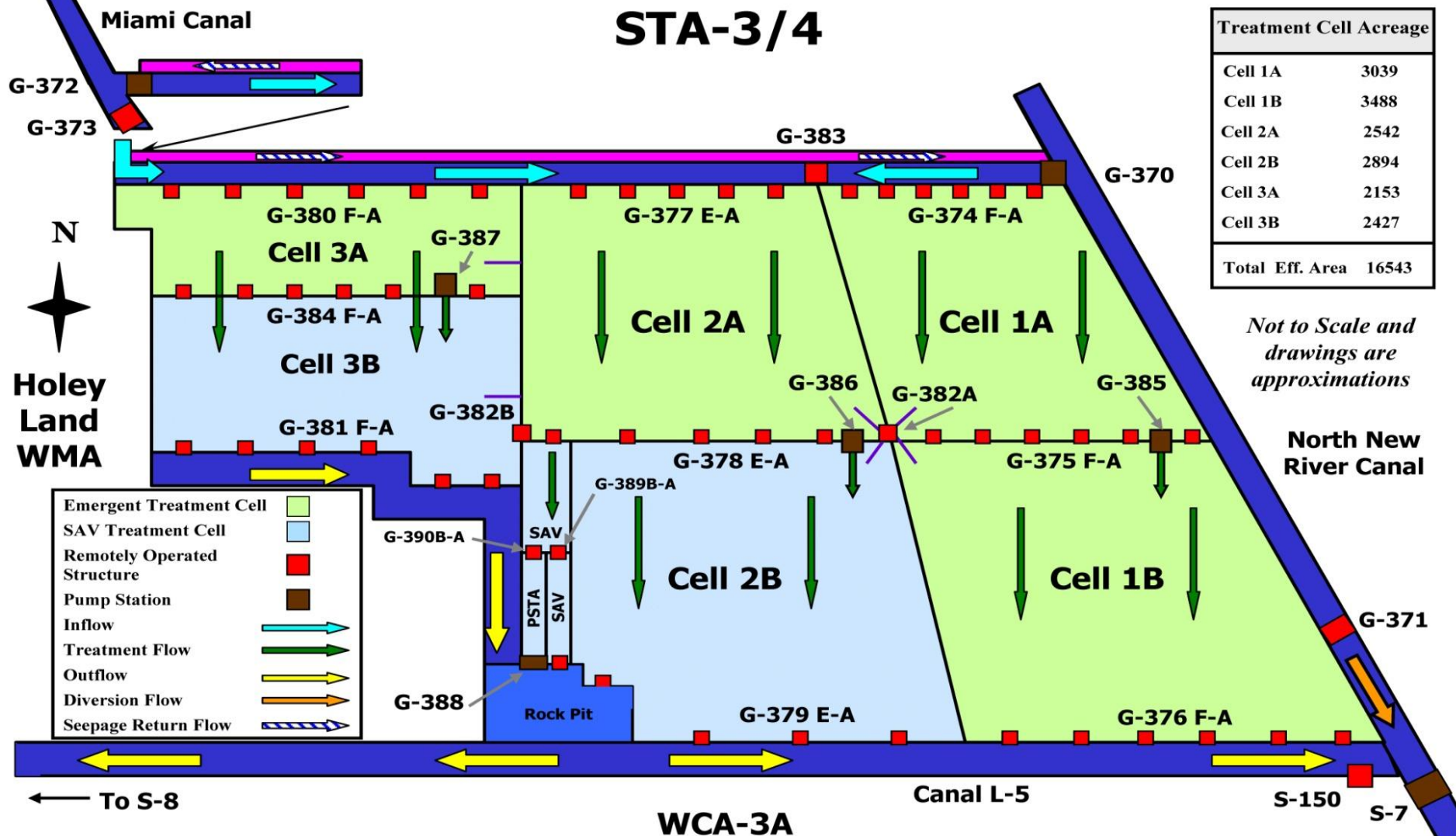
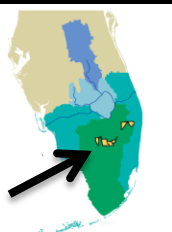
NOTE: Optimal Range for Oysters: 14 – 28 psu

Seasonal Ecological Issues

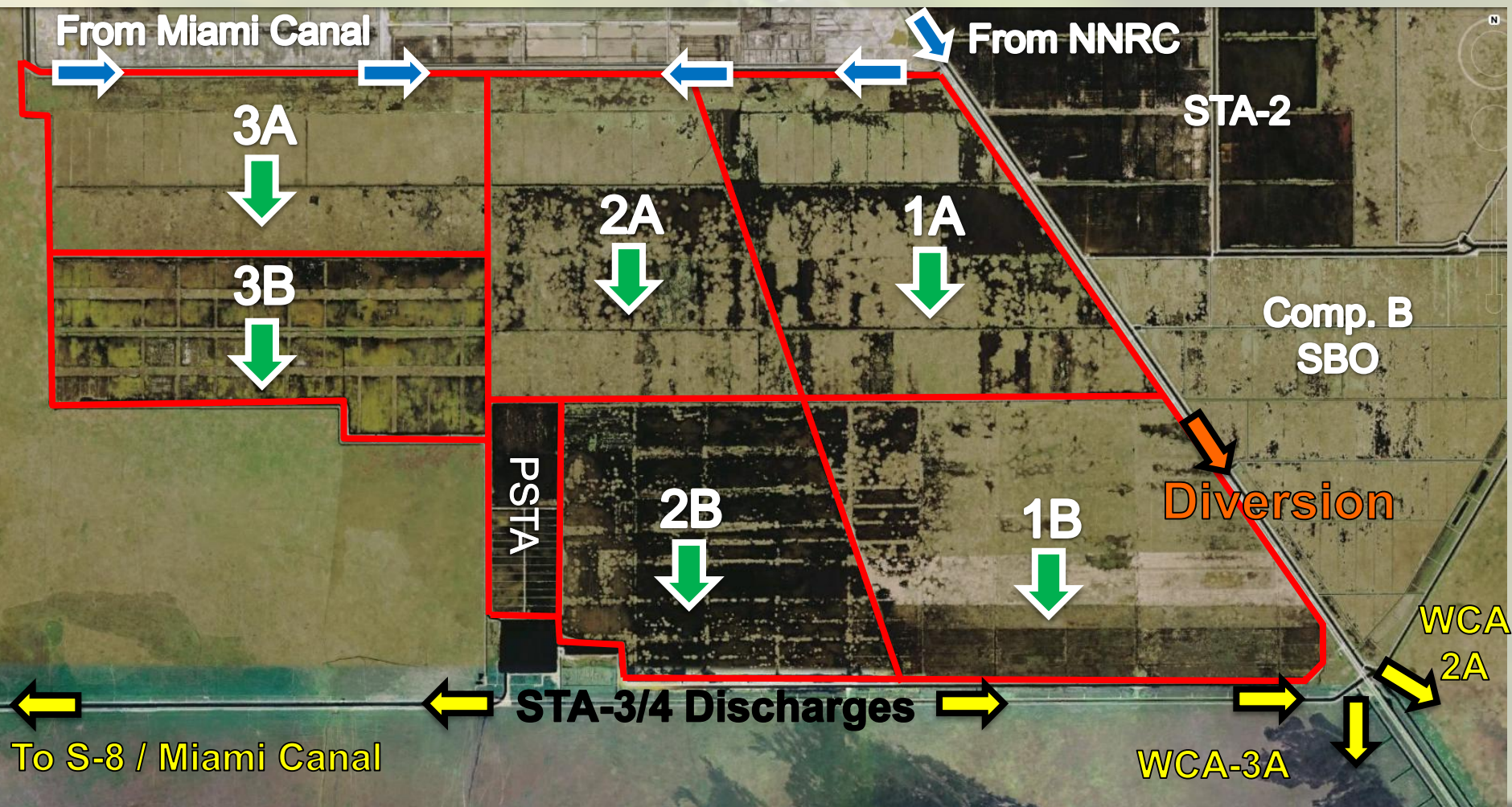
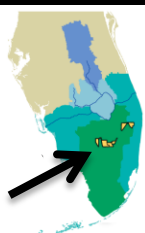
Fish kill reported in C-24 Canal
(Fish & Wildlife Commission Hotline)

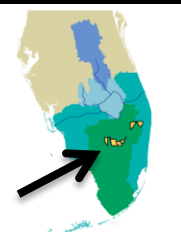
Algae Blooms – Caloosahatchee
(Florida Department of Health Hotline)

Stormwater Treatment Area 3/4

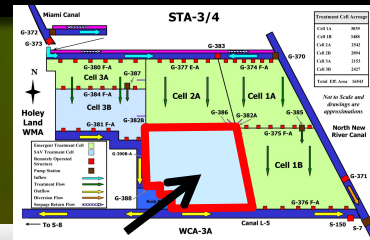


Stormwater Treatment Area 3/4





STA-3/4 Cell 2B



1/27/11



Thick growth of submerged aquatic vegetation in Cell 2B

6/13/11



Dried out Cell 2B in early June 2011

6/29/11



Re-flooded areas after the heavy rain event in late June

6/29/11



Peat lifting up to the water surface

Strategies to Recover Drought-Impacted Cells

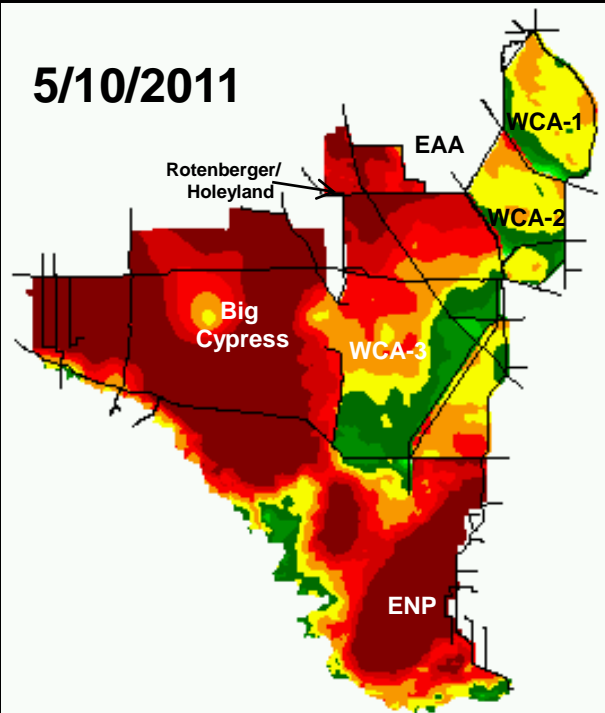
- Closely monitoring flows, nutrient loading, and outflow concentrations
- Closely monitoring plant re-establishment
- Management of flows based on near-real time information
- Diversion of excess flow is underway and will continue as necessary to allow for vegetation to re-establish
- Management of water depth to allow for successful vegetation re-establishment

Greater Everglades

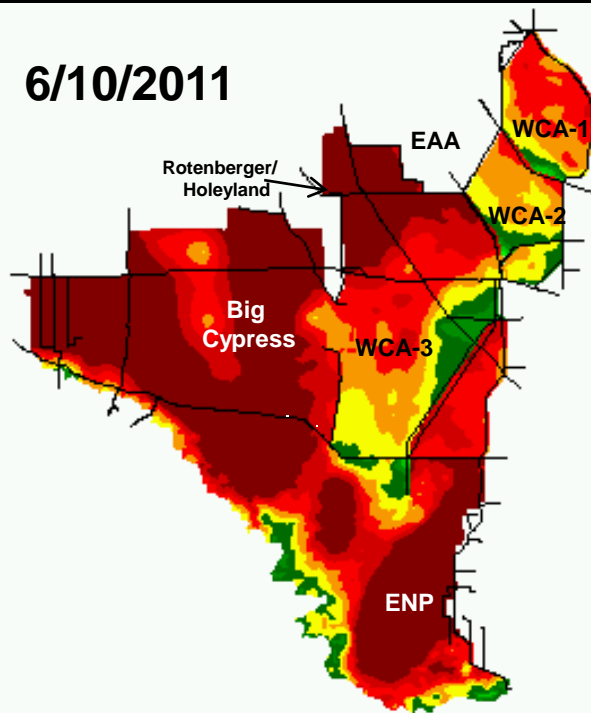
Water Depth Monthly Snapshots



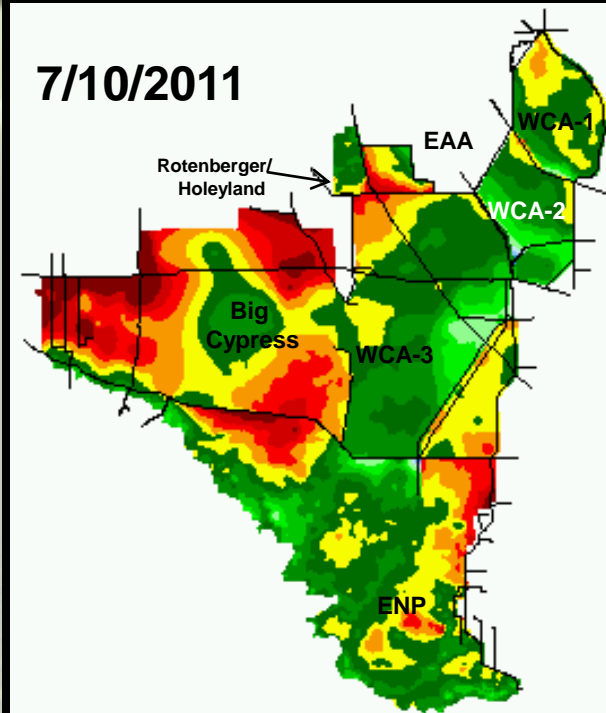
5/10/2011



6/10/2011



7/10/2011

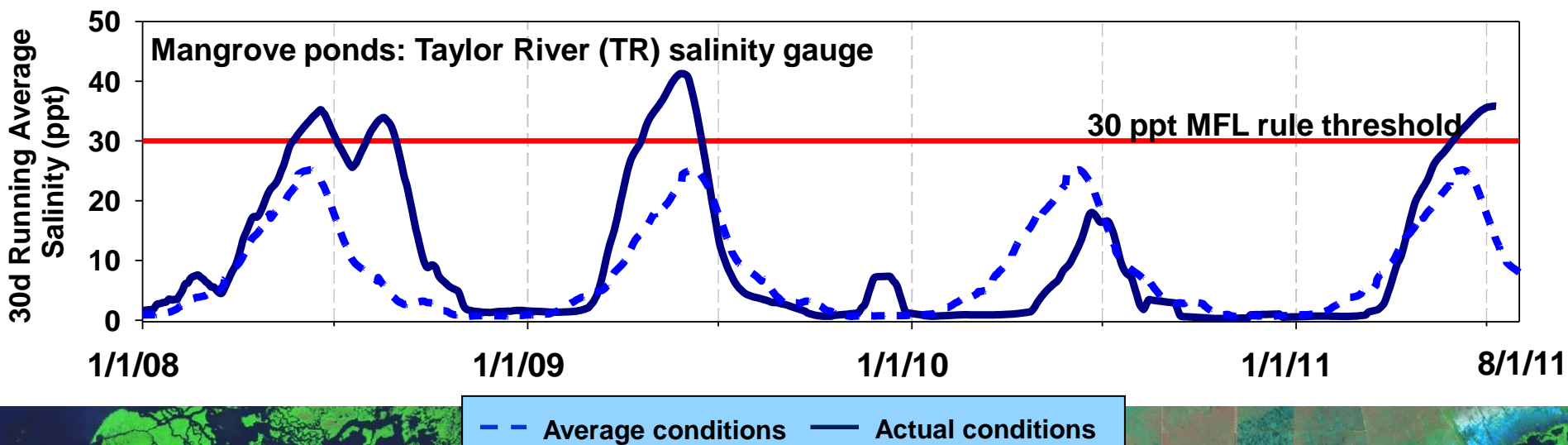


Water Depth (feet)

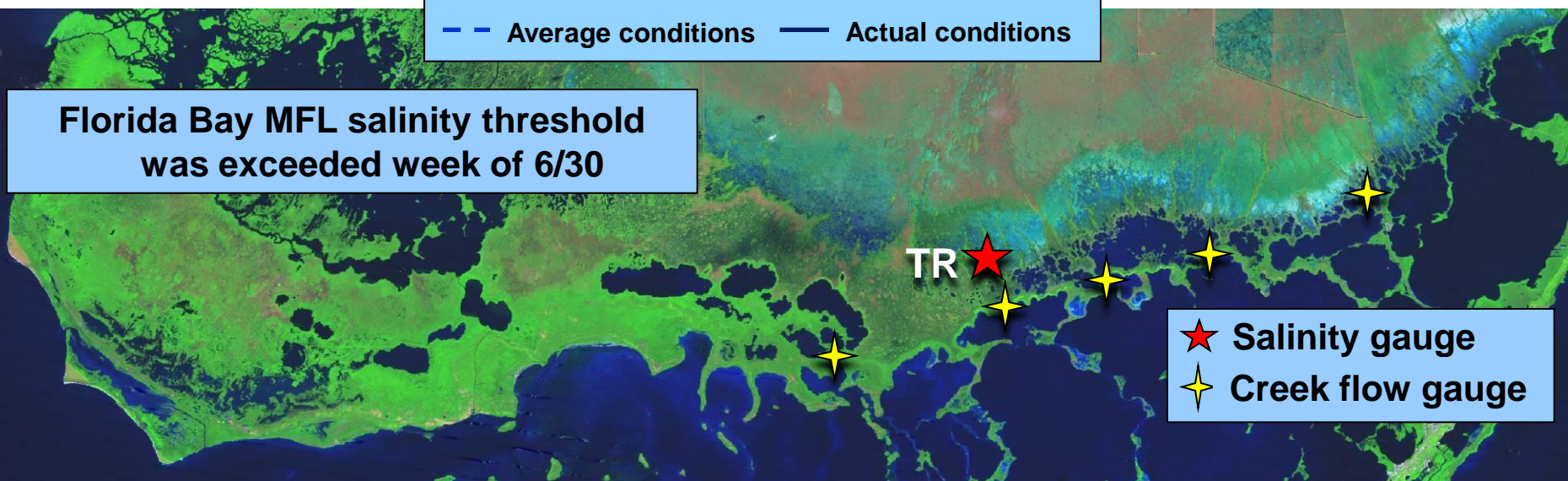
-2.5' 0' 2.5' 5.0'



Tracking Salinity in Florida Bay



Florida Bay MFL salinity threshold was exceeded week of 6/30





Thank You